

## EXHIBIT 13

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### **A sampling of the yeast proteome.**

**Futcher B, Latter GI, Monardo P, McLaughlin CS, Garrels JI.**

Cold Spring Harbor Laboratory, Cold Spring Harbor, New York 11724, USA.  
futcher@cshl.org

In this study, we examined yeast proteins by two-dimensional (2D) gel electrophoresis and gathered quantitative information from about 1,400 spots. We found that there is an enormous range of protein abundance and, for identified spots, a good correlation between protein abundance, mRNA abundance, and codon bias. For each molecule of well-translated mRNA, there were about 4,000 molecules of protein. The relative abundance of proteins was measured in glucose and ethanol media. Protein turnover was examined and found to be insignificant for abundant proteins. Some phosphoproteins were identified. The behavior of proteins in differential centrifugation experiments was examined. Such experiments with 2D gels can give a global view of the yeast proteome.

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